Background of Scholarship:

Developing new materials derived from waste encourages waste minimisation, and is a critical step towards achieving a circular economy. This project focuses on producing bio-inspired materials from New Zealand’s aquacultural waste and combines expertise from materials engineering, aquaculture and marine sectors. In phase one, unique marine structures and future aquacultural waste materials will be identified for this diversifying industry. In phase two the focus will be on producing and characterising bio-inspired foamed products from current waste. The masters project (and student) will work across both phases but with a primary focus on phase two. The current and emerging aquaculture in the Bay of Plenty region makes this project uniquely placed to benefit the local community and New Zealand.

This project will require the student to work across both the Tauranga and Hamilton campuses. Working from the Tauranga campus will enable close collaboration between engineering, coastal marine and aquaculture staff and local stakeholders throughout the project while experimental work will be conducted in Hamilton.

An ideal candidate would have:

- Relevant background e.g. BE (Hons) or BSc in materials, chemical and biological engineering, environmental science or engineering, or similar
- Restricted or full license (travel may be required to the Hamilton campus and to visit stakeholders)
- Previous laboratory experience and data analysis skills
- Excellent communication skills – the student should be capable of writing professional emails and be confident when communicating over the phone and face to face.

If you are a self-motivated student, with an enthusiastic manner, who thinks they meet the criteria above please apply.

Eligibility criteria:
Level: Masters
Enrollment: Full-time

Value:
Stipend of $1,400 per month for 12 months ($16,800 total) plus domestic tuition fees (approximately $7,000).

Application documents required:
- Cover Letter – please outline your interest in the project and relevant background
- CV
- Full Academic transcript
- Contact details for a minimum of 2 referees, including one academic reference

Contact and email address for applications:
Name: Dr Chanelle Gavin
Email address: chanelle.gavin@waikato.ac.nz

Closing date:
01 June 2021